



Institut d'Études Scientifiques de Cargèse

CNRS / UNIVERSITÉ DE CORSE / UNIVERSITÉ NICE SOPHIA ANTIPOLIS

Wave Propagation in Complex and Microstructured Media

Propagation d'ondes en milieux complexes et micro-structurés

August 20th - 30th, 2019

The objective of this school is to present recent advances in the field of wave propagation in complex media, with particular focuses on **effective dynamics of micro-structured media and homogenization**, and on **guided waves**. The main objective of the school is the pooling of knowledge in these domains so that participants can learn the formalisms - techniques - methods - tools from the different communities of wave physics (mechanical and acoustical waves, electromagnetism) and applied mathematics, and thus, enlarge their knowledge for their own research. The interdisciplinary nature of this school should generate exchanges and collaborations between the different communities involved in this subject.

Main topics will include

Dynamical homogenization, Waveguides, Metamaterials

Lecturers include

Habib Ammari (ETH Zurich, Switzerland) ♦ Yves Aurégan (LAUM, Le Mans, France) ♦ Claude Boutin (ENTPE, Lyon, France) ♦ Edward J. Brambley (Univ. Warwick, UK) ♦ Michele Brun (Univ. Cagliari, Italy) ♦ Bérangère Delourme (Univ. Paris XIII, France) ♦ Pierre Delplace (ENS Lyon, France) ♦ Hauke Gravenkamp (Univ. Duisburg, Germany) ♦ Sébastien Guenneau (Institut Fresnel, Marseille, France) ♦ Bojan Guzina (Univ. Minnesota, USA) ♦ Julius Kaplunov (Keele Univ., UK) ♦ Vincent Laude (Femto, Besançon, France) ♦ Marco Miniaci (ETH, Zurich, Switzerland) ♦ Michael Nieves (Univ. Keele, UK) ♦ Oscar Quevedo-Teruel (KTH, Sweden)

Scientific and steering committee

Simon Félix (LAUM, CNRS, Le Mans Université) ♦ Agnès Maurel (Institut Langevin, CNRS, ESPCI, Paris) ♦ Jean-François Mercier (Poems, CNRS, ENSTA, INRIA, Palaiseau) ♦ Vincent Pagneux (LAUM, CNRS, Le Mans Université) ♦ Philippe Petitjeans (PMMH, CNRS, ESPCI, Paris)

Information and Registration

<https://pmmh.spip.espci.fr/?Wave-propagation-in-complex-and-microstructured-media>

Contact wave2019@espci.fr



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